FINAL ANSWER KEY

Question 56/2024/OL

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Department Medical Education

Question1:-Which of the following statement is not true regarding testis?

A:-Sertoli cells provide blood testis barrier

B:-Foetal Leydig cells produce Anti Mullerian Hormone (AMH)

C:-Leydig cells contain crystals of 'Reinke'

D:-Secondary Spermatocytes have a haploid number

Correct Answer:- Option-B

Question2:-Which of the following is a remnant of the mesonephric duct?

A:-Ligament of ovary

B:-Round Ligament of Uterus

C:-Duct of Bartholin's gland

D:-Duct of Gartner

Correct Answer:- Option-D

Question3:-Which of the following does not constitute placental barrier in full term pregnancy?

A:-Cytotrophoblast

B:-Syncitiotrophoblast

C:-Basement membrane of foetal capilliary

D:-Endothelial cells of foetal capilliary

Correct Answer:- Option-A

Question4:-Regarding physiology of gonadotropin releasing hormone (GnRH) and its disease states, which of the following options is correct?

- (i) Women with rapid pulses of GnRH have anovulatory cycles.
- (ii) In premenopausal women treatment with aromatase inhibitors leads to decreased serum follicle stimulating hormone levels
- (iii) There is selective clinical phenotype in Kallman Syndrome, dental agenesis is seen in patients with FGF8 or FGFR1 mutation
- (iv) The activation of gene expression of specific beta subunits of gonadotropins depends on stimulation of pituitary gonadotrophs by intermittent GnRH pulses

A:-only (ii) and (iv)

B:-All are true

C:-(i), (iii) and (iv)

D:-Only (i) and (iii)

Correct Answer:- Option-C

Question5:-Regarding spermatogenesis, which of the following options is correct?

- (i) Oligospermia in a patient who underwent scrotal irradiation 4 weeks ago is explained because of the treatment he received
- (ii) In male infants with congenital gonadotropin deficiency lack of postnatal surge in serum gonadotropin concentration results in a lower number of sertoli cells and spermatogonia
- (iii) Intratesticular testosterone concentration and FSH determine spermatogeneis
- (iv) Of all the cells in the testis, Spermatogonia A dark are least sensitive to ionising irradiation

A:-Only (i) and (ii)

B:-Only (ii) and (iii)

C:-(i), (iii) and (iv)

D:-(ii), (iii) and (iv)

Correct Answer:- Option-D

Question6:-Regarding fetal and neonatal endocrine physiology which of the following options is correct?

- (i) Epidemiological date report impairment to intellectual function and behaviour in infants with normal thyroid function but are born to mothers with mild untreated or subclinical hypothyroidism.
- (ii) Plasma Oxytocin concentration in human cord blood are elevated in association with fetal bradycardia or meconium aspiration.
- (iii) Cells with zona reticularis morphology are detectable in human adrenal cortex at 3 months in the involuting fetal zone
- (iv) Specific genetic mechanisms dictating ovarian development include WNT/beta catenin and FOXO/FOXL2 pathways

A:-Only (i) and (iv)

B:-Only (ii) and (iii)

C:-Only (i) and (ii)

D:-Only (iii) and (iv)

Correct Answer:- Option-A

Question7:-Depot Gosarelin is used in all except

A:-Precocious puberty

B:-Prostatic carcinoma

C:-Uterine Leiomyoma

D:-Testicular Seminoma

Correct Answer:- Option-D

Question8:-Ulipristal is a

A:-Selective Estrogen Receptor Modulator

B:-Selective Progestrone Receptor Modulator

C:-GnRH analogue

D:-GnRH antagonist

Correct Answer:- Option-B

Question9:-Select the drug therapy for prolactinoma

A:-Carbergoline

B:-Lanreotide

C:-Raloxifene

D:-Lubiprostone

Correct Answer:- Option-A

Question 10:-Following statements are true regarding carcinoma cervix.

- (i) HPV 16 accounts for 60% of cervical cancer
- (ii) LSIL is not treated like a premalignant condition.
- (iii) HPV DNA testing has higher sensitivity, but lower specificity compared to Pap test.
- (iv) Most common histological subtype is squamous cell carcinoma

A:-(i) and (ii)

B:-(i), (ii) and (iv)

C:-(i) and (iv)

D:-(i), (ii), (iii) and (iv)

Correct Answer:- Option-D

Question11:-The following statements and true regarding germ cell tumours

- (i) Germ cell tumours account for 80% of all ovarian tumours
- (ii) Most of them are benign cystic teratomas.
- (iii) Inflammatory limbic encephalitis is a paraneoplastic syndrome associated with teratoma
- (iv) About 1% of teratomas undergo malignant transformation

A:-(i) and (ii)

B:-(ii) and (iii)

C:-(ii), (iii) and (iv)

D:-(i), (ii), (iii) and (iv)

Correct Answer:- Option-C

Question12:-All the following infections arise first in the epididymis and spread to testes except

A:-Tuberculosis

B:-Gonorrhoea

C:-Syphilis

D:-Chlamydia trachomatis

Correct Answer:- Option-C

Question13:-Which of the following statements is/are correct?

(i) Trophoblast cells do not express major histocompatibility class I antigen HLA-A

and B

- (ii) Extra villous cytotrophoblast cells express classical Major histocompatibility class I HLA-C and the nonclassical HLA E, F and G-products.
- (iii) Selected trophoblast cells express major histocompatibilty class II molecules.
- (iv) Natural killer cells kill cells that do not express major histocompatibility class molecules.
 - A:-(i) and (ii) are correct
 - B:-(i), (ii), (iii) are correct
 - C:-(i), (ii), (iv) are correct
 - D:-all are correct

Correct Answer:- Option-C

Question14:-Progesterone helps in the maintenance of the semi allogenic implanting fetus by

- A:-Stimulating T cell effector function
- B:-Promoting T cell gene expression of TH1 type T help cell response
- C:-Increasing expression of Leukaemia inhibiting factor
- D:-Stimulating Mitogen induced proliferation of and cytokine secretion by CD8+Tcells

Correct Answer:- Option-C

Question15:-The key enzymes necessary for estrogen biosynthesis by placenta are all Except

- A:-Steroid 17 alpha hydroxylase
- B:-Steroid sulfatase
- C:-Cytochrome P450 aromatase
- D:-17 beta hydroxy steroid dehydrogenase

Correct Answer:- Option-A

Question16:-The risk of an offspring with full mutation in a woman with fragile X premutation is dependent primarily on

A:-number of DNA triple repeat

B:-sex of the offspring

C:-age of the offspring

D:-Affection of one of both X chromosomes

Correct Answer:- Option-A

Question17:-During the cyclic follicular development phase in the ovaries, the Follicle Stimulating Hormone (FSH) level is suppressed by all Except

- A:-Rising Estrogen levels
- B:-Rising Inhibin B levels
- C:-Rising Inhibin A levels
- D:-Rising Activin levels

Correct Answer:- Option-D

Question18:-A 17-year girl presented with primary amenorrhoea. Her height is 175 cm. She had tanner stage 3 breast development, bilateral inguinal masses, sparse to no pubic and axillary hair, normal female external genitalia. Vagina was blind, 3 cm deep. Uterus was absent on sonography. What is the most likely diagnosis?

A:-Mullerian Agenesis

B:-Testicular feminization

C:-Reifenstein Syndrome

D:-McCune Albright Syndrome

Correct Answer:- Option-B

Question19:-A girl achieved menarche and developed severe hirsutism at 12 years of age. Her 17-hydroxy progesterone level was 75 ng/dl and free testosterone level was 430ng/dl. The next step for diagnosis is

A:-Karyotyping

B:-ACTH stimulation test

C:-CT Scan abdomen and pelvis

D:-Fasting glucose/insulin level

Correct Answer:- Option-C

Question20:-Vasomotor symptoms associated with menopause can be treated by all Except

A:-Venlafaxine

B:-Ospemifene

C:-Bazedoxifene

D:-Gabapentin

Correct Answer:- Option-B

Question21:-Regarding sperm evaluation in infertile couple

A:-Magnetic-Activated cell sorting (MACS) technique for "Sperm preparation techniques" is proved to increase live birth rate

B:-Sperm oxidative stress negatively affect all sperm function and reproductive outcome

C:-FISH (Fluoresce in situ hybridization) test is used as diagnostic tool for diagnosis of balanced chromosomal translocation in sperm.

D:-Karyotype test is done for testing sperm DNA fragmentation

Correct Answer:- Option-B

Question22:-In case of frozen embryo transfer (FET)

A:-In natural cycle of FET, sequential estrogen and progesterone are given to women at a minimal dose

B:-Natural cycle FET can increase the risk of ovarian hyperstimulation syndrome

C:-Programmed cycle FET decreases the risk of hypertensive disorder of pregnancy

D:-Natural cycle results in a thicker endometrium as compared to hormone replacement therapy (HRT) cycle.

Correct Answer:- Option-D

Question23:-Hyperprolactinemia is caused by all except

A:-Renal failure

B:-Hypothyroidism

C:-H2 antagonist

D:-Bromocriptine

Correct Answer:- Option-D

Question24:-Regarding ART Act and Surrogacy Act of India

A:-Couple undergoing Surrogacy must have both gamete from the intending couple

B:-transfer of the embryo into the reproductive system of a woman comes under level 1 ART clinics

C:-Sperm donor should not be tested for HIV as it breaches the confidentiality

D:-Clinics doing intrauterine insemination (IUI) procedure carried out as part of treatment in not essential to be registered under ART Clinic

Correct Answer:- Option-A

Question25:-Regarding Ovarian hyper stimulation syndrome (OHSS):

A:-Early OHSS tends to be more prolonged and severe than the late form

B:-Elevated haematocrit, reduced serum osmolality and serum sodium is indicative of OHSS

C:-Paracetamol is the first line of treatment for mild cases of OHSS

D:-Anti-coagulant should not be given in severe cases of OHSS

Correct Answer:- Option-B

Question26:-All are true about cause of anovulation Except:

A:-Polycystic ovarian syndrome results in Normo-gonadotropic Normo-estrogenic Anovulation

B:-Anorexia nervosa can lead to Hypogonadotropic Hypogonadal Anovulation

C:-Premature ovarian failure can lead to elevated serum FSH and low AMH concentrations

D:-Hypothalamic-pituitary imaging is indicated when hyperprolactinemia is coexist with hypothyroidism

Correct Answer:- Option-D

Question27:-All are true about Uterine biophysical profile Except

A:-Ovarian artery doppler PI is considered as most informative parameter

B:-Lesser score is given if endometrial thickness is 15 mm as compared to a

thickness of 10mm

C:-Presence of myometrial blood flow is scored more as compared to absence of myometrial blood flow

D:-Distinct 5 line appearance of endometrial layering on transabdominal ultrasound is given the highest score

Correct Answer:- Option-A

Question28:-Criteria for a failed pregnancy includes all Except

A:-Absence of an embryo when the mean sac diameter is greater than 25 mm

B:-Presence of a fetus with a CRL of 10 mm and no heartbeat

C:-6 mm difference between gestational sac diameter and the CRL of the embryo

D:-Absence of an embryo with a heartbeat 15 days after a gestational sac with a yolk sac was seen

Correct Answer:- Option-D

Question29:-Regarding fetal reduction

A:-Better outcome with transvaginal approach

B:-Selective fetal reduction is done in dichorionic diamniotic twin pregnancy with one fetus diagnosed with trisomy 21

C:-Normal saline (2 ml) is used for fetal reduction to have less complication

D:-Preferred method of fetal reduction in monochrionic diamniotic twin pregnancy is chemical injection into one fetus

Correct Answer:- Option-B

Question30:-Best method to diagnose tubal patency is

A:-Hysterosalpingography

B:-Saline sonosalpingography

C:-Computerized tomography of lower pelvis

D:-Laparoscopy with tubal patency assay

Correct Answer:- Option-D

Question31:-Ultrasound in early pregnancy can indicate a possible scar pregnancy if

A:-Gestation sac is seen above the endometrial line

B:-Myometrial thickness is 5 mm

C:-Empty uterine cavity and cervix

D:-No blood flow in the area of previous cesarian scar

Correct Answer:- Option-C

Question32:-Endometrial biopsy is indicated in women if transvaginal ultrasound showed endometrial thickness to be 5mm in

A:-Postmenopausal women with recurrent bleeding P/V

B:-Asymptomatic postmenopausal women

C:-Women with Tamoxifen for carcinoma breast without any abnormal uterine bleeding (AUB)

D:-Perimenopausal women with AUB

Correct Answer:- Option-A

Question33:-As per WHO 2021, all of the following are normal values for semen analysis expect

A:-Sperm concentration: 16 million/ml

B:-Progressive motility: 30%

C:-Vitality: 54%

D:-Normal Morphology: 6%

Correct Answer:- Option-D

Question34:-Duration of treatment with antibiotics for genital infections in men is:

A:-One week

B:-Two weeks

C:-Four weeks

D:-Six weeks

Correct Answer:- Option-D

Question35:-Which of the following statements about varicocele and its surgery is not correct?

A:-Varicocele may be observed in 30-40% cases of male infertility

B:-Varicocele maybe observed in up to 20% fertile men

C:-Usually surgical ligation of internal spermatic vein is performed for varicocele syrgery

D:-There is level I evidence that varicocele surgery improves pregnancy outcome

Correct Answer: - Option-D

Question36:-Which statement about intracytoplasmic sperm injection (ICSI) is not true?

A:-For ICSI minimum sperm concentration should be atleast 10 million sperms/ml

B:-It can also be performed for totally immotile spermatozoa

C:-It can be performed for morphologically abnormal sperms

D:-It can also be performed for obstructive azoospermia after surgical retrieval of sperms from testes

Correct Answer: - Option-A

Question37:-Which of the following is not indication of artificial insemination donor?

A:-Azoospermia

- B:-Asthenospermia
- C:-Genetic disease in women
- D:-Uncorrectable immunological factors

Correct Answer:- Option-C

Question38:-Which of the following drugs is used for treatment of premature ejaculation?

- A:-Dapoxetine
- B:-Sildenafil
- C:-Tadalafil
- D:-Prednisolone

Correct Answer:- Option-A

Question39:-During invitro fertilisation and embryo transfer (IVF, ET), the embryo implanted into the prepared endometrium has how may cells?

- A:-Two cells
- B:-Four cells
- C:-Eight cells
- D:-Sixteen cells

Correct Answer:- Option-C

Question 40:- The commonest site of implantation of trophoblast in uterine cavity is

- A:-Anterior surface of upper uterine segment
- B:-Posterior surface of upper uterine segment
- C:-Anterior surface of lower uterine segment
- D:-Posterior surface of lower uterine segment

Correct Answer:- Option-B

Question41:-Ovulation occurs after how many hours of LH surge:

- A:-6-8 hours
- B:-12-16 hours
- C:-24-30 hours
- D:-30-36 hours

Correct Answer:- Option-D

Ouestion42:-Best test for measurement of ovarian reserve is

- A:-AMH levels
- B:-Basal FSH levels
- C:-Inhibin B levels
- D:-Estradiol levels

Correct Answer:- Option-A

Question43:-Gestational surrogacy is advised in the following candidates except:

A:-Mullerian agenesis

B:-Following hysterectomy

C:-Turner's Syndrome

D:-Genital tuberculosis with blocked tubes and severe Asherman syndrome

Correct Answer:- Option-C

Question44:-Which of the following ovulation inducing drug is associated with least risk of ovarian hyperstimulation syndrome (OHSS)?

A:-Clomiphene citrate

B:-Letrozole

C:-FSH and LH injection

D:-HCG injection

Correct Answer:- Option-B

Question45:-Which of the following is not the pre requisite for medical management with methotrexate for ectopic pregnancy?

A:-Patient hemodynamically stable

B:-Unruptured adnexal mass of less than 4 cm on scan

C:-Serum hCG levels don't exceed 5000IU/L

D:-Fetal cardiac activity should be present

Correct Answer:- Option-D

Question46:-Rubin's criteria are used for diagnosis of which ectopic pregnancy?

A:-Ovarian pregnancy

B:-Abdominal pregnancy

C:-Cervical pregnancy

D:-Cornual pregnancy

Correct Answer:- Option-C

Question47:-As per Royal College of Obstetricians and Gynaecologists recommendations, which of the following investigations is not recommended for evaluation of a patient of recurrent miscarriage?

A:-TORCH screening

B:-Parental cytogenetic analysis

C:-Lupus anticoagulant and anticardiolipin antibodies assay

D:-Pelvic ultrasound for uterine cavity and ovarian morphology

Correct Answer:- Option-A

Question48:-Which of the following cervical cerclage operation is done by abdominal route?

A:-Shirodkar's cerclage

B:-Benson and Durfee cerclage

C:-Lash and Lash operation

D:-Wurm's stitch

Correct Answer:- Option-B

Question49:-Triploid (69, XXX or 69, XXY) karyotype is seen in which type of gestational trophoblastic disease?

A:-Complete mole

B:-Partial mole

C:-Invasive mole

D:-Placental site trophoblastic tumor

Correct Answer:- Option-B

Question 50: Twin peak sign on utlrasound is seen in which type of twin pregnancy?

A:-Monoamniotic monochorionic twin pregnancy

B:-Diamniotic monochorionic twin pregnancy

C:-Monoamniotic dichorionic twin pregnancy

D:-Diamniotic dichorionic twin pregnancy

Correct Answer:- Option-D

Question51:-32 year old lady, married for 4 years, P0000 visits the clinic with USG report of fibroid uterus and AMH of 0.8ngm/ml

A:-Antimullerian hormone of 0.8ngm/ml may indicate POF

B:-Pedunculated subserosal fibroid at fundus is the cause for infertility

C:-Submucosal fibroid can be diagnosed by MRI with >90% sensitivity

D:-Preoperative treatment with GnRH analogues may decrease the volume of fibroid

Correct Answer:- Option-B

Question52:-All is true about polycystic ovarian syndrome except

A:-Stein and Leventhal first presented their work on PCOS in 1935

B:-The Endocrine dysfunction of PCOS does not involve somatotrophic axis (growth hormone) and adrenocorticotrophic axis

C:-Familial clustering is common in PCOS

D:-Altered waist hip ration of \geq =0.85 suggest hyperandrogenism in PCOS women

Correct Answer:- Option-B

Question53:-Regarding Ovarian Follicular development

A:-Folliculogenesis is a process designed to allow monthly recruitment of cohort of primordial follicles

B:-Two cell two Gonadotrophin theory balances the hormones to result in preovulatory follicle

C:-Androgen excess is needed for ovulation to take place

D:-At higher concentrate on estrogen enhances the LH release

Correct Answer:- Option-C

Question54:-Female genital Tuberculosis is a common cause for infertility. All is true except

A:-Incidence of Tuberculosis is high in infertile women ranging from 5-10%

B:-Fallopian tube is most commonly affected in 92-100% women with disease

C:-Combination of culture and PCR has highest sensitivity and specificity of 100%

D:-Tubal reconstructive surgery is advisable and has return of fertility to 80%

Correct Answer:- Option-D

Question55:-In the diagnosis algorithm for early diagnosis of ectopic pregnancy, following has been recommended, except

A:-Report of transvaginal ultrasonography with a intrauterine gestational sac, excludes the extrauterine pregnancy in most cases

B:-Adnexal gestation sac with a yolk sac or embryo, seen on TVS confirms diagnosis of ectopic pregnancy

C:-Mass of 1 cm can be identified

D:-A Beta HCG level of >3510 mIU/ml and no intrauterine sac on TVS

Correct Answer:- Option-C

Question56:-Following statements hold true regarding mechanism of subfertility in endometriosis, except

A:-Inflammation causes release of inflammatory cytokines like IL-6 and TNF-α

B:-Impaired folliculogenesis is causes by cortical damage to ovary by endometrioma

C:-Endometrioma does not have any effect of AMH

D:-Pelvic adhesion can result from inflammatory insult to peritoneal lining

Correct Answer:- Option-C

Question57:-Post-operative adhesion Spectrum is a persistent problem. All holds true with it; except

A:-Fibrinolysis dysregulation are the main cause for adhesion formation

B:-Modifying surgical technique by adopting laparoscopic method does not decrease adhesion formation

C:-Natural polymers (hyaluronic acid) inhibit inflammatory response and promote wound healing

D:-Polyethylene Glycol (PEG) has excellent biocompatibility and is used to cover injured site

Correct Answer:- Option-B

Question58:-In relation to genomic processes following statements are true except:

- A:-Mutation is a change in DNA sequence, that can be a basic substitution, deletion or insertion
 - B:-Expressivity is the degree of gynotypic expression of a particular genotype
- C:-Penetrance is proportion of measure that individuals in a population express related to phenotype of a condition
- D:-Genomic imprinting or epigenetics is phenomenon where genes can be expressed in a parent of origin specific manner

Correct Answer:- Option-B

Question59:-For implementation of carrier screening guidelines

A:-Genetic counselling is not important

B:-Testing is mandatory for an individual

C:-Pedigree charting is an optional step to ascertain risk in X-linked disorder

D:-As per ACOG Committee opinion published in 2017; screening for hemoglobinopathies, CF and SMA should be offered to all

Correct Answer:- Option-D

Question60:-Chromosome analysis is done by all methods except

A:-Karyotyping

B:-Microarray

C:-Flourescence in-situ hybridization

D:-Mass spectroscopy

Correct Answer:- Option-D

Question61:-In Prenatal Diagnosis of Skeletal Dysplasia,

A:-Antenatal assessment of risk of skeletal dysplasia cannot be done by non-invasive method

B:-Severe lethal dysplasia can be suspected by decreased CRL and increased nuchal thickness

C:-Exome sequencing or CVS can be done if causative variant of SD not known

D:-Prenatal USG parameters like chest/AC-<0.7;HC?chestc->0.5;AC/FL-<0.16, suggest a lethal skeletal dysplasia

Correct Answer:- Option-A

Question62:-Following is true for Banding techniques for chromosome analysis except

A:-Chromosomes display a succession of more or less coloured bands along their arms

B:-Banding patterns are reproductive to each chromosome

C:-They may help in comparison of chromosomes within and in related species

D:-They do not permit detail description of chromosomal or structural rearrangement

Correct Answer:- Option-D

Question63:-Following is true for Recurrent Pregnancy loss, except

A:-The overall rate of genetic association in form of numerical or structural chromosomal arrangement is 5-10%

B:-Aneuploidy is the most common cause in 70% of spontaneous first trimester spontaneous miscarriage

C:-Balanced Translocation is present in 50% of RPL in any one of the partner

D:-CPM (Confined Placental Mosaicism) is present in 15 of Recurrent pregnancy losses where placenta is deformed

Correct Answer:- Option-C

Question64:-For single gene disorder following stands correct except

A:-There is known alteration or mutation in one of 20,000 genes in every cell of body

B:-cannot be inherited through one or more generation of the family

C:-SGDS (Single Gene Disroder Screening) helps in embryo selection

D:-SDGS enables families to decrease risk for having child with that single gene order

Correct Answer:- Option-B

Question65:-Cytogenetics when combined with Molecular Medicine evolves to form a speciality of molecular cytogenetics. Following is true except

A:-The field is focussed on studying the evolution of chromosomes

B:-It involves the study of number, structure, function and origin of chromosomal abnormalities

C:-Virtual karyotype are generated from arrays made of thousands to millions of probes

D:-Computational tools are used to recreate the genome in saline

Correct Answer:- Option-D

Question66:-Which of the following statements is correct regarding a child born through ART?

A:-Child has no right to seek information about his/her genetic parent

B:-Child has the right to know the personal identity of the genetic parent

C:-The parents are obliged to inform the child about the details of genetic, parent once child reaches 18 years

D:-Child has the right to collect information about DNA fingerprint of genetic parents on reaching 18 years

Correct Answer:- Option-D

Question67:-All of the following statements regarding National Database for Human Fertility in India are true, except

A:-Data will help in overcoming iatrogenic transmission of defective genes

B:-India has well documented database for Human Fertility procedures

C:-Helps keep pace with rapid developments in molecular knowledge of

human reproduction

D:-Helps detect genetic cause for male infertility tests eg. FISH

Correct Answer:- Option-B

Question68:-Information counselling for those undergoing ART procedures should include all except

A:-Counseling must be in local language that can be understood by the couple

B:-Should avoid discussing about possibility of failure to prevent risk of depression

C:-Each partner has autonomy for decision making

D:-Disclosure of any personal issue to other partner requires prior consent

Correct Answer:- Option-B

Question69:-According to Surrogacy Regulation Act 2021, all are true except

A:-A single unmarried woman cannot opt for surrogacy route

B:-Both the gametes used... sperm or oocyte can be donated ones

C:-District medical board must issue certification of indication for using donor gamete

D:-Gamete donor has confidentiality assured

Correct Answer:- Option-B

Question 70:- The ICMR ART Regulation Act addresses all of the following except

A:-Rights of the infertile couple

B:-Ensure uniformity of qualifications and skills of the professionals in the ART clinic

C:-There are separate consent forms for each individual procedure

D:-Confidentiality assured of the identity of individuals involved

Correct Answer:- Option-B

Question71:-Vitrification of sperms causes all of the following except

A:-Increases motility and viability compared to slow freeze techniques

B:-Sperms can be stored indefinitely

C:-Reduces incidence of sperm defects

D:-Produces higher mitochondrial activity

Correct Answer:- Option-A

Question72:-Number of embryos transferred during IVF

A:-Depends on the request of he couple

B:-Maximum two

C:-More than three permissible in special circumstances

D:-Maximum three only

Correct Answer:- Option-C

Question73:-Which of the following statements are true in specifications in CARA, Dept of Health and Family Welfare?

A:-Single male cannot adopt a girl child

B:-There is no specification regarding age gap between prospective parents and adopted child

C:-Married couples with children are not eligible for adoption

D:-Consent of only one spouse is sufficient for adoption

Correct Answer:- Option-A

Question74:-Surrogacy Act 2022 - all of the following statements are false except

A:-It is mandatory for woman agreeing for surrogacy to undergo strict screening tests for communicable infections

B:-The couple can opt for desired sex of the baby

C:-Financial agreement and commercial payment to surrogate is done by ART clinic

D:-The gestational carrier cannot opt for MTP for personal reasons

Correct Answer:- Option-A

Question75:-Which of the following statements are false?

A:-Ova derived from fetus can be used for IVF in ART clinics

B:-Ova from fetuses can be used for research

C:-Research on embryos are restricted to only 14 days maturity

D:-Commercial transactions are prohibited in embryo research

Correct Answer: - Option-A

Question76:-Which one of the following cryoprotectants used in vitrification process are nonpermeable?

A:-Sucrose

B:-Dimethyl sulfide

C:-Glycerol

D:-Ethylene glycol

Correct Answer: - Option-A

Question77:-According to Surrogacy Regulation Act, which statement is false?

A:-A relative of the same generation only can be permitted to be a surrogate

B:-Advertisement for surrogacy can be displayed in the ART clinics

C:-A lady can act as surrogate only maximum of three times

D:-Prospective surrogate should give written declaration that she will not take prohibited drugs or transfusions

Correct Answer:- Option-B

Question 78:-Which of the following statements are false?

A:-Oocyte donor cannot be surrogate mother for the couple for whom oocyte is

donated

B:-Only married women are eligible for ART

C:-Surrogate mother is registered as parent in casesheet in hospital records

D:-Only controlled ovarian hyperstimulation is permitted for oocyte donors

Correct Answer:- Option-B

Question79:-Which of following statements are flase?

A:-ART clinics are prohibited to provide couples with child of desired sex

B:-Sperms can be donated irrespective of the age of the man

C:-Undergoing ART procedures without consent of spouse is a ground for divorce

D:-Age of oocyte donors must be between 18-35 years

Correct Answer:- Option-B

Question80:-The following statements are true except

A:-Embryos are usually preserved for five years

B:-Consent of couple is required for storage and use of embryos

C:-Specifications for storage of gametes and embryos can be decided by each ART clinic independently

D:-The couple will lose custody of the embryos if payment is defaulted inspite if reminders

Correct Answer:- Option-C

Question81:-In ART, same Al applications cannot be used for

- 1. Sperm selection and analysis
- 2. Embryo grading and selection
- 3. Ethnic disease population
- 4. Oocyte evaluation and selection

A:-1

B:-3

C:-1 and 4

D:-All of the above

Correct Answer:- Option-C

Question82:-Following are statements regarding cervical cerclage operation; identify true statement/statements

- 1. An emergency cerclage, when exposed membranes are present, with cervical length less than 25 mm is known as rescue cerclage
- 2. Cervical cerclage can be classified by indication or by level of placement
- 3. Low cervical cerclage, inserted transversely without bladder mobilisation is known as Shirodkar's oppration
- 4. High cervical cerclage, transvaginally is called McDonald's cerclage

A:-1

B:-1 and 2

C:-1, 2 and 3

D:-All of the above

Correct Answer:- Option-C

Question83:-Which biochemical feature is often seen in hyperandrogenism associated with infertility?

A:-Elevated level of testosterone

B:-Decreased levels of insulin

C:-Elevated levels of LH

D:-Increased levels of SHBG

Correct Answer:- Option-C

Question84:-Extremely low estriol level in pregnancy indicates,

- 1. Placental aromatase deficiency
- 2. Adrenal hypofunction
- 3. Impending or present fetal demise
- 4. Drug related effects

A:-1

B:-2

C:-All of the above

D:-3

Correct Answer:- Option-C

Question85:-Which are true statements about AMH?

- 1. Production by granulosa cells of preantral and antral follicles
- 2. Primary function is autocrine and paracrine regulation of follicular development
- 3. AMH levels increases with oral contraceptive use
- 4. Low threshold values have good specificity for poor response to ovarian stimulation

True statements are

A:-4 and 1

B:-2 and 3

C:-1, 2 and 4

D:-All of the above

Correct Answer:- Option-C

Question86:-Most reliable simple test for ovulatory function is:

A:-Serum LH level

B:-Serum progesterone level

C:-Endometrial biopsy

D:-Urinary LH excretion

Correct Answer:- Option-B

Question87:-Infertility relating to mycomas are due to mechanism like,

- 1. Displacement of the cervix decreasing exposure to sperm
- 2. Distortion of the uterine cavity inhibiting sperm or ovum transport
- 3. Distorted adnexal anatomy, interfering with ovum capture
- 4. Anovulation

True statement/statements are:

A:-1

B:-1 and 2

C:-4

D:-1, 2 and 3

Correct Answer:- Option-D

Question88:-About male reproductive function, with ageing,

- 1. Semen volume and sperm motility decreases
- 2. Pregnancy rate decreases and time to conception increases
- 3. Serum total and free testosterone levels decrease
- 4. Advanced paternal age is associated with small increase in risk of spontaneous abortion

Correct statements are:

A:-1 and 2

B:-All of the above

C:-3 and 4

D:-2 and 3

Correct Answer:- Option-B

Question89:-Following are disorders of sperm transport except,

- 1. Young syndrome
- 2. Klinefelter syndrome
- 3. Kartagener syndrome
- 4. Kallman syndrome

A:-3

B:-1

C:-2 and 4

D:-All of the above

Correct Answer:- Option-C

Question90:-Test used to differentiate viable non mobile spermatozoa from deed spermatozoa

A:-Post coital test

B:-Vitality test

C:-Sperm Penetration test

D:-Antisperm Antibody test

Correct Answer:- Option-B

Question91:-True statements regarding clomiphene are:

1. Clomiphine is ineffective in women with hypergonadotrophic hypogogonadism

- 2. Clomiphine is ineffective in women with hypogonadotrophic hpyogonadism
- 3. Clomiphine treatment is also been offered to normally ovulating women with unexplained infertility especially Young with short duration of infertility
- 4. Empiric clomiphene treatment for unexplained infertility is most effective when combined with IUI

A:-1 and 2

B:-3 and 4

C:-2, 3 and 4

D:-All of the above

Correct Answer:- Option-C

Question92:-Which of the following statement regarding metformin is/are correct?

- 1. Metformin is currently not recommended as a treatment for weight loss or anovulation
- 2. The use of metformin in women with PCOS is justified only in the presence of IGT or Type 2 Diabetes
- 3. Metformin is used prophylactically to prevent diabetes and to treat obesity
- 4. If lifestyle modification fails to reduce blood sugar, metformin is used

A:-1

B:-1, 2

C:-1, 2, 3

D:-1, 2, 4

Correct Answer:- Option-D

Question93:-The ideal time for multifetal pregnancy reduction under transabdominal ultrasound guidance is

A:-6 - 8 weeks

B:-8 - 10 weeks

C:-10 - 14 weeks

D:-16 - 18 weeks

Correct Answer:- Option-C

Question94:-The absolute indications of IVF are

- 1. Bilateral tubal block
- 2. Resistant anovulation
- 3. Premature ovarian failure
- 4. Total asthenospermia

A:-1 and 2

B:-1, 3 and 4

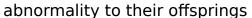
C:-2 and 4

D:-All of the above

Correct Answer:- Option-B

Question95:-Which of the following are correct statements regarding PGT-M(PGD)?

1. PGD is indicated for couples at risk for transmitting a specific genetic



- 2. Used to detect genetic mutation that predisposes to a disease
- 3. To detect unbalanced chromosomal translocations
- 4. PCR is the method of choice for PGT-M

A:-1

B:-3

C:-4

D:-All of the above

Correct Answer:- Option-D

Question 96:-Which of the following are incorrect statement/statements regarding fertility preservations?

- 1. Malignant diseases before chemotherapy
- 2. Oocyte cryopreservation can be done in prepuberty
- 3. Cryopreservation of embryos and oocytes fertility preservation options
- 4. Delays chemotherapy in case of embryo cryopreservation and oocyte cryopreservation

A:-1

B:-2

C:-1 and 3

D:-All of the above

Correct Answer:- Option-B

Question 97:-Which of the following is the method of choice of treatment for Asherman syndrome?

- 1. Blind curettage of the endometrial cavity
- 2. pressure lavage with normal saline under guidance of TVUS
- 3. Hysteroscopy
- 4. Lysis using a balloon catheter under fluoroscopic control

A:-1

B:-3

C:-4 and 2

D:-4

Correct Answer:- Option-B

Question98:-Cervix serves as a sperm reservoir for

A:-12 hours

B:-24 hours

C:-48 hours

D:-72 hours

Correct Answer:- Option-D

Question 99:- The correct statement/statements regarding preovulatory expansion of cumulus opphorus,

1. Increases the chance of encounter with one of the few spermatozoa that have

reached the far section of the tube

- 2. Prevents sperm penetration and fertilisation
- 3. This facilitates sperm passage through the cumulus
- 4. Increases the chance of blighted ovum
 - A:-1
 - B:-2
 - C:-1 and 3
 - D:-4

Correct Answer:- Option-C

Question100:-Factor/factors restricting trophoblast invasion into maternal blood vessels:

- 1. Plasminogen Activator Inhibitor I
- 2. Leukotrienes
- 3. Cytokines
- 4. Thromboxane A2
 - A:-4
 - B:-1 and 3
 - C:-1, 2 and 3
 - D:-All of the above

Correct Answer:- Option-C