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**Anatomy**

**Part –B            (35X1=35)**

1. The parenchyma of mammary gland develops from
  - a. Endoderm
  - b. Mesoderm
  - c. Surface ectoderm
  - d. Hypodermis
  
2. Hensen's cells are seen in
  - a. Yolk sac
  - b. Kidney
  - c. Iridocorneal junction
  - d. Organ of Corti
  
3. Secretomotor fibres to lacrimal gland relay in
  - a. Otic ganglion
  - b. Pterygopalatine ganglion
  - c. Ciliary ganglion
  - d. Submandibular ganglion
  
4. Right homonymous hemianopia is associated with damage to
  - a. Left optic tract
  - b. Right optic tract
  - c. Right optic nerve
  - d. Optic chiasma
  
5. Sacrococcygeal teratomas are due to proliferation of remnants of
  - a. Primitive streak
  - b. Notochord
  - c. Allantois
  - d. Cloacal membrane
  
6. Birbeck bodies are elongated vacuoles seen in
  - a. Merkel cells
  - b. Dendritic cells
  - c. Melanocytes
  - d. Goblet cells
  
7. Portal vein
  - a. Is formed by union of splenic vein and inferior mesenteric veins
  - b. Forms the posterior wall of epiploic foramen
  - c. Has inferior mesenteric vein as its first tributary
  - d. Is formed at L<sub>2</sub> level



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8. Lamina cribrosa is the site where the optic nerve fibres pierce the
  - a. Retina
  - b. b. Choroid
  - c. Sclera
  - d. d. Fascia bulbi
  
9. 'Bucket handle tear' injury is due to rupture of
  - a. Medial meniscus
  - b. Lateral meniscus
  - c. Lateral collateral ligament
  - d. Ligamentum patella
  
10. Wernicke's aphasia is usually caused by a lesion in
  - a. Superior temporal gyrus
  - b. Inferior temporal gyrus
  - c. Inferior frontal gyrus of dominant hemisphere
  - d. Midlle frontal gyrus of dominant hemisphere
  
11. In Osteogenesis imperfecta, defect in collagen fibres of bone is due to
  - a. Deficiency of Vitamin C
  - b. Deficiency of Vitamin D
  - c. Hormonal imbalance
  - d. Genetic abnormality
  
12. Efferent axons of cerebellar cortex arise from
  - a. Golgi cells
  - b. Granule cells
  - c. Purkinje cells
  - d. Pyramidal cells
  
13. Which of the following is not a true symphyseal joint
  - a. Symphysis pubis
  - b. Symphysis menti
  - c. Manubriosternal joint
  - d. Joints between vertebral bodies
  
14. Obturator artery arises from
  - a. Internal iliac artery
  - b. Internal pudendal artery
  - c. External iliac artery
  - d. Profunda femoris artery
  
15. The neurotransmitter associated with locus coeruleus is
  - a. Acetylcholine
  - b. Dopamine
  - c. Noradrenaline
  - d. Serotonin



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16. Which of the following is NOT a component of a secondary villus
  - a. Cytotrophoblast
  - b. Syncytiotrophoblast
  - c. Primary mesoderm
  - d. Secondary mesoderm
  
17. Appendix of testes is a remnant of
  - a. Mesonephric duct
  - b. Mesonephric tubules
  - c. Paramesonephric duct
  - d. Gubernaculum testes
  
18. The nerve supplying carotid sinus and body is
  - a. Glossopharyngeal
  - b. Facial
  - c. Accessory
  - d. Hypoglossal
  
19. The mastoid part of the temporal bone is grooved by
  - a. Sigmoid sinus
  - b. Superior petrosal sinus
  - c. Inferior petrosal sinus
  - d. Transverse sinus
  
20. Gastrulation occurs during the following week of development
  - a. First week
  - b. Second week
  - c. Third week
  - d. Fourth week
  
21. Appendices epiploicae are typically seen in
  - a. Caecum
  - b. Appendix
  - c. Rectum
  - d. Sigmoid colon
  
22. Russel bodies are inclusions seen in
  - a. Monocytes
  - b. Plasma cells
  - c. Mast cells
  - d. Macrophages
  
23. Valves of Kerckring are mucosal folds seen in
  - a. Ureter
  - b. Common bile duct
  - c. Small intestine
  - d. Cystic duct



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24. Podocytes are typically seen in
- Urinary bladder
  - Kidney
  - Spleen
  - Prostate
25. Nerve fibres supplying the dura mater of brain arises from ALL of the following nerves EXCEPT
- Abducent
  - Trigeminal
  - Vagus
  - First three cervical nerves
26. Which of the following is NOT a content of superficial perineal pouch
- Bulbospongiosus
  - Ischiocavernosus
  - Transverse perinei superficialis
  - Sphincter urethrae
27. Axillary sheath is derived from
- Prevertebral fascia
  - Pretracheal fascia
  - Investing layer of deep cervical fascia
  - Axillary fascia
28. All of the following genes or protein are involved in cardiac development EXCEPT
- HAND 1
  - b. HAND 2
  - NKX 2
  - Sonic Hedgehog
29. Tanycytes are cells present in
- Alveoli of lung
  - Ependyma
  - Lymph vessels
  - Olfactory epithelium
30. Part of the brachial plexus involved in Klumpke's paralysis is
- Upper trunk
  - Middle trunk
  - Lower trunk
  - C<sub>5</sub>C<sub>6</sub> roots
31. Left superior intercostal vein drains into
- Azygos
  - Hemiazygos
  - Accessory hemiazygos
  - Left brachiocephalic vein



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32. The nerve most commonly used for grafting is
- Saphenous nerve
  - Sural nerve
  - Tibial nerve
  - Deep peroneal nerve
33. Costal pleura is supplied by twigs from
- Phrenic nerve
  - Vagus nerve
  - Greater splanchnic nerve
  - Intercostal nerves
34. The position of anterior neuropore is represented in the adult by
- Basal lamina
  - Alar lamina
  - Lamina terminalis
  - Sulcus limitans
35. The position occupied by a gene on a chromosome is called
- Locus
  - Arm
  - Centromere
  - Allelomorph





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**Biochemistry (Medical)**

**Part –B            (35X1=35)**

1. Which of the following is required for the oxidation of very long chain fatty acid?
  - a. Oxidation at the beta chain
  - b. Shortening in peroxisomes
  - c. Transport into mitochondria
  - d. Isomerization of the double bond
  
2. Enzyme deficiency in Tyrosinemia Type II
  - a. FumarylAceto acetate hydrolase
  - b. Tyrosine transaminase
  - c. Para hydroxyl phenyl pyruvate hydroxylase
  - d. Tyrosinase
  
3. Which Porphyria is inherited as an autosomal recessive trait
  - a. Congenital erythropoetic porphyria
  - b. Hereditary coproporphryia
  - c. Porphryia cutaneatarda
  - d. Variegata porphyria
  
4. When  $^{15}\text{N}$  (radio active nitrogen) labelled glycine is given, the label will appear in all the following compounds, EXCEPT
  - a. Urobilinogen
  - b. Urea
  - c. Uric acid
  - d. Urocanic acid
  
5. Which enzyme do not contain copper?
  - a. Xanthine oxidase
  - b. Tyrosinase
  - c. Cytochrome oxidase
  - d. Superoxide dismutase
  
6. Which of these is a conservative mutation
  - a. Glutamic acid to glutamine
  - b. Histidine to glycine
  - c. Alanine to leucine
  - d. Arginine to aspartic acid



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7. All the following are inhibitors of translation in prokaryotic cells, EXCEPT
  - a. Clindamycin
  - b. Streptomycin
  - c. Mitomycin
  - d. Erythromycin
  
8. Which is not a protein misfolding disease?
  - a. Prion disease
  - b. Alzheimer's disease
  - c. Beta Thalassemia
  - d. Ehlers-Danlos syndrome
  
9. Major type of collagen in basement membrane:
  - a. Type I
  - b. Type II
  - c. Type III
  - d. Type IV
  
10. Method used to study the structure of protein include all EXCEPT
  - a. UV Spectroscopy
  - b. Mass Spectrometry
  - c. X-ray Crystallography
  - d. Edman's technique
  
11. Alpha 2 Heat labile Alkaline phosphatase is produced by
  - a. Biliary canaliculi
  - b. Hepatic cells
  - c. Osteoblast
  - d. Intestinal cells
  
12. The lipid storage disease which can manifest in adult is
  - a. Tay-Sachs disease
  - b. Niemann Pick's disease
  - c. Gaucher's disease
  - d. Sandhoff's disease
  
13. Which of the electron carriers is soluble and mobile
  - a. Co enzyme Q
  - b. Cytochrome C
  - c. Cytochrome a
  - d. Cytochrome b
  
14. Enzyme deficiency in Maroteaux-Lamy
  - a. N Acetyl Galactosamine 4 Sulfatase
  - b. Galactosamine 6 sulfatase
  - c. N Acetyl Glucosamine 4 sulfatase
  - d. Beta Galactosidase



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15. Which of the following is the major intracellular cation?
  - a. Magnesium
  - b. Potassium
  - c. Sodium
  - d. Calcium
16. Fish oil is not used in the treatment of
  - a. Type 2A hyperlipoproteinemia
  - b. Type 2B hyperlipoproteinemia
  - c. Type 3 hyperlipoproteinemia
  - d. Type 4 hyperlipoproteinemia
17. Which repair defect leads to fanconi's Anemia
  - a. Nucleotide excision repair
  - b. Miss match defect
  - c. Base excision repair
  - d. Double-strand Break repair
18. Daily requirement of Iodine for an adult is
  - a. 15-20 microgram
  - b. 150-200 microgram
  - c. 800-900 microgram
  - d. 1000-1500 microgram
19. Protein separation based on mass/molecular weight is done by all EXCEPT
  - a. Native gel electrophoresis
  - b. Ultra filtration
  - c. 2D gel electrophoresis
  - d. Gel Filtration Chromatography
20. Movement of protein from nucleus to cytoplasm can be seen by
  - a. Fluorescent In Situ Hybridization
  - b. Fluorescence Recovery After Photobleaching
  - c. Confocal microscopy
  - d. Cyanogen bromide
21. Which of the vitamin deficiency lead to lactic acidosis
  - a. Riboflavin
  - b. Thiamine
  - c. Niacin
  - d. Pantothenic acid
22. Daily requirement of calcium for an adult is
  - a. 2 mg
  - b. 15 mg
  - c. 70 mg
  - d. 500 mg





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23. Treatment used in isovalericaciduria
  - a. Arginine
  - b. Lysine
  - c. Methionine
  - d. Glycine
  
24. Sanger's reagent is chemically
  - a. 2,4 Dinitro benzene
  - b. 2,4 Dinitro Cresol
  - c. 1, Fluoro 2,4 Dinitro Benzene
  - d. 2,4 Fluorodinitro Cresol
  
25. Which enzyme is active when insulin: glucagon ratio is low
  - a. Glucokinase
  - b. Acetyl CoA carboxylase
  - c. Glucose 6 phosphatase
  - d. Acyl transferase
  
26. The glycemic index is highest for
  - a. Glucose
  - b. Fructose
  - c. Sucrose
  - d. Sugar alcohol
  
27. E.Coli sepsis commonly seen in
  - a. Urea cycle disorders
  - b. Galactosemia
  - c. Glycogen storage disorder
  - d. Lysosomal storage disorder
  
28. Immunoglobulin molecule is synthesized by in mixed or separate due to
  - a. Differential RNA processing
  - b. Co-dominance
  - c. Gene switching
  - d. Allele exclusion
  
29. Which of the following are situated away from the coding region
  - a. Operator
  - b. Structural gene
  - c. Enhancer
  - d. Promotor
  
30. Housekeeping genes are
  - a. Inducible
  - b. Required only when inducer is present
  - c. Not regulated
  - d. Mutant



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31. A person on a fat free carbohydrate rich diet continues to grow obese. Which of the following lipoproteins is likely to be elevated?
- LDL
  - HDL
  - Chylomicron
  - VLDL
32. Selenocysteine is coded by
- UAG
  - UGA
  - UAA
  - GUA
33. All of the following are substrates for trans methylation reaction
- Choline
  - Nor-epinephrine
  - N-Acetyl Serotonin
  - Guanido acetic acid
  - e.
34. Real-time PCR is used for
- Multiplication of RNA
  - Multiplication of specific segment of DNA
  - Multiplication of Protein
  - To know how much amplification has occurred
35. Ketosis is due to increased
- Hepatic glucose liberation
  - Carbohydrate utilization
  - Gluconeogenesis
  - Fatty acid oxidation





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**Microbiology (Medical)**

**Part –B            (35X1=35)**

1. Organism used for quality check of Muller Hinton agar is
  - A. Enterococcus.
  - B. B. Staphylococcus.
  - C. C. Pneumococcus.
  - D. D. Streptococcus.
2. Drug which act on cytoplasmic membrane of bacteria is
  - A. Gentamicin.
  - B. B. Daptomycin.
  - C. C. Amikacin.
  - D. D. Tobramycin
3. Disinfecting concentration of Orthophthaldehyde is
  - A. 0.25%
  - B. 0. 35%
  - C. 0.45%
  - D. 0.55%.
4. Indication of **sterile** gloves for health care worker includes all **Except**
  - A. Invasive procedures.
  - B. Collecting blood for serological tests.
  - C. Collecting blood for blood culture.
  - D. Surgical procedures.
5. Alternative complement pathway is initiated by all **Except**
  - A. Teichoic acid.
  - B. Lipopolysaccharide.
  - C. Endotoxin.
  - D. Carbohydrate residue of cell wall.
6. An example of Type II hypersensitivity reaction is
  - A. Transfusion reaction.
  - B. B. Hay fever.
  - C. C. Asthma.
  - D. D. Atopy
7. Prozone phenomenon is due to.
  - A. Antigen excess
  - B. Antibody excess.
  - C. Complement excess.
  - D. Both antigen and antibody excess



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8. Commonest opportunistic organism causing infections in HIV patients in India is
- A. Mycobacterium tuberculosis.
  - B. Non tuberculous Mycobacterium.
  - C. Leprosy.
  - D. Salmonella.
9. What is the modification in Nested PCR
- A. More than one primer is used so as to detect many DNA sequence of different organism.
  - B. Two rounds of PCR amplification with two primers against two different DNA sequences of same organism.
  - C. Amplification done at isothermal conditions.
  - D. RNA extracted is converted to DNA by reverse transcriptase.
10. Use of MALDI TOF is to
- A. Determine the antibiotic sensitivity.
  - B. Rapid identification of microorganisms.
  - C. Automated culture of clinical samples.
  - D. Automated smear preparation.
11. All are primary pathogens of meningitis **Except**
- A. Neisseria meningitidis.
  - B. Group B streptococci.
  - C. Streptococcus pneumonia
  - D. Haemophilus influenza.
12. Commonest bacteria causing Urinary tract infection is
- A. Klebsiella pneumonia.
  - B. Staphylococcus aureus.
  - C. Pseudomonas.
  - D. E. coli.
13. First vaccine was developed by
- A. Joseph Lister.
  - B. Louis Pasteur.
  - C. Edward Jenner.
  - D. Paul Ehrlich
14. The resolution power of Electron Microscope is
- A. 5 nm.
  - B. 2 nm.
  - C. 1 nm.
  - D. 0.5 nm



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15. Bacterium with spore is
- A. Clostridium.
  - B. Corynebacterium.
  - C. Listeria.
  - D. Spirochete
16. All are sporicidal disinfectants **Except**
- A. Hypochlorite.
  - B. Absolute Alcohol.
  - C. Glutaraldehyde.
  - D. Hydrogen peroxide
17. Lawn culture is used for all the following **Except**
- A. Antibiotic sensitivity testing.
  - B. Phage typing.
  - C. Antigen preparation.
  - D. Isolation of pathogen
18. Gold standard for bacterial typing
- A. Auxotyping.
  - B. Serotyping.
  - C. Pulse Field Gel Electrophoresis
  - D. Microarrays
19. Name the single biochemical test to differentiate between Staphylococci and Streptococci
- A. Oxidase.
  - B. catalase.
  - C. Coagulase.
  - D. DNA ase
20. All the following toxins are coded by phage DNA **Except**
- A. Cholera toxin.
  - B. Anthrax toxin.
  - C. Diphtheria toxin.
  - D. Verocytotoxin
21. Chemical nature of Endotoxin is
- A. Lipid A.
  - B. Carbohydrate.
  - C. Teichoic acid.
  - D. Protein.



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22. An example of Hetrophil Antibody test is
- A. Widal test.
  - B. Weil felix test.
  - C. VDRL test.
  - D. ASO test
23. Which of the following acts as an anaphylotoxin
- A. C2a.
  - B. C3b.
  - C. C4b.
  - D. C3a.
24. Which cell does not have Human leukocyte antigen
- A. Monocyte.
  - B. RBC.
  - C. Neutrophil.
  - D. Thrombocyte.
25. Macrophages are major source of
- A. IL-1.
  - B. IL-5.
  - C. IL-7.
  - D. IFN $\gamma$ .
26. A patient had prosthetic valve replacement andhe develops endocarditis after few months.  
Organism responsible is
- A. Staphylococcus aureus.
  - B. Staphylococcus epidermidis.
  - C. Viridans Streptococci.
  - D. HACEK.
27. Pneumococci differentiated from Viridans Streptococci by all the following **Except**
- A. PYR test.
  - B. Bile solubility.
  - C. Optochin sensitivity.
  - D. Animal pathogenicity in mice.
28. Diphtheria toxin produced by all **Except**
- A. C. diphtheria.
  - B. C. xerosis.
  - C. C. pseudotuberculosis.
  - D. C. ulcerans.



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29. Bacteria causing travellers diarrhoea is
- A. ETEC.
  - B. EHEC.
  - C. EPEC.
  - D. EIEC.
30. An example of Halophilic Vibrios is
- A. Vibrio cholerae.
  - B. Vibrio vulnificus.
  - C. Vibrio-O139.
  - D. Aeromonas.
31. Weil's disease is caused by
- A. Borrelia recurrentis.
  - B. Treponema endemicum.
  - C. Treponema pallidum.
  - D. Leptospira interrogans.
32. Hepatitis A virus is
- A. Adeno virus.
  - B. Enterovirus 72.
  - C. Coxsackie B.
  - D. Coxsackie A
33. Rabies is diagnosed by
- A. Negri bodies.
  - B. Guarneri bodies.
  - C. Cowdry A bodies.
  - D. Paschen bodies.
34. Haemorrhagic fever causing virus is
- A. Herpes zoster.
  - B. Herpes simplex.
  - C. Dengue.
  - D. H1N1.
35. An example of dematiaceous fungi is
- A. Fonsecaea.
  - B. Candida.
  - C. Cryptococcus.
  - D. Mucor.





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**Community Medicine**

**Part –B            (35X1=35)**

1. Modified Kuppaswamy scale include all criteria for socioeconomic status except:
  - a. Income per capita
  - b. Education of head of family
  - c. Occupation of head
  - d. Income of head
  
2. 'Silent epidemic' of the century is
  - a. Coronary artery disease
  - b. Chronic liver disease
  - c. Chronic obstructive lung disease
  - d. Alzheimers disease
  
3. Which of the following is 'event-type' disability indicator?
  - a. Notification rate
  - b. Bed disability days
  - c. Limitation of activity
  - d. Limitation of mobility
  
4. The rate adjusted to allow for the age distribution of the population is
  - a. Perinatal moratlity rate
  - b. Rude mortality rate
  - c. Fertility rate
  - d. Age-standardized mortality rate
  
5. Oils and fine powders are sterilized by
  - a. Autoclaving
  - b. Microwaving
  - c. Hydro claving
  - d. Hot air oven
  
6. About premunition all are true except
  - a. Good for individual
  - b. Good for community
  - c. Species specificity present
  - d. Prevention from infection
  
7. The diagnostic power of a test to correctly exclude the disease is reflected by
  - a. Sensitivity
  - b. Specificity
  - c. Positive predictivity
  - d. Negative predictivity





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8. Validity of a test is based upon all except
  - a. Sensitivity
  - b. Specificity
  - c. Precision
  - d. Accuracy
  
9. Paralysis in polio is characterized by
  - a. Exaggerated tendon reflexes
  - b. Symmetrical paralysis
  - c. Tonic paralysis
  - d. Lower motor neuron type
  
10. Magnesium is used in OPV vaccine as
  - a. Stabilizer
  - b. Adjuvant
  - c. Preservative
  - d. Vehicle
  
11. IT based TB monitoring is known as
  - a. Nischay
  - b. Nikshay
  - c. Nirbhay
  - d. e-DOTS
  
12. True regarding total goiter rate (TGR) is
  - a. Divided into three grades: not visible, palpable, visible
  - b. Goitre is classified as endemic, if  $TGR \geq 10\%$
  - c. TGR reflects the current status of IDD in population
  - d. Field survey of TGR does not require doctors
  
13. Which does not have live birth as denominator
  - a. Infant mortality rate
  - b. Neonatal mortality rate
  - c. child mortality rate
  - d. child death rate
  
14. Gomez classification is based on
  - a. Weight retardation
  - b. Height retardation
  - c. Mid-arm circumference
  - d. Stunting
  
15. Vanaspati ghee is fortified with
  - a. Iodine
  - b. Vitamin A
  - c. Iron
  - d. Calcium



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16. Physiologically most active Vitamin D is
  - a. Calciferol
  - b. Cholecalciferol
  - c. Ergocalciferol
  - d. Calcitriol
  
17. Acculturation means
  - a. Culture contact
  - b. Study of various cultures
  - c. Cultural history of health and disease
  - d. Exchange of ideas
  
18. The 'Nirbhay fund' is set up by the government of India is for
  - a. Ensuring the safety of women
  - b. Promoting the financial literacy of rural poor
  - c. Promoting self help groups of women
  - d. Providing free education
  
19. Relative humidity is determined by
  - a. Kata thermometer
  - b. Anemometer
  - c. Sling psychrometer
  - d. Gardbads operator
  
20. 10-days rule is related to
  - a. Sewage disposal
  - b. Air quality
  - c. Water quality
  - d. Radiation protection in pregnancy
  
21. Urine bags and catheters biomedical wastes will be disposed in
  - a. Yellow bag
  - b. Red bag
  - c. White container
  - d. Blue bag
  
22. Blood spills in Indian hospitals are disinfected by \_\_\_\_\_ compounds
  - a. Quaternary ammonium
  - b. Chlorine based
  - c. Phenol based
  - d. Alcohol based
  
23. Number of ASHA visits after home delivery is
  - a. 4
  - b. 5
  - c. 6
  - d. 7



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24. The new initiative 'LaQshya' is implemented for
- Labour room quality improvement
  - Coverage of more vaccines for immunization
  - Long term planning for health care improvement
  - To improve TB notification
25. The Government of India target to eliminate TB is
- 2025
  - 2030
  - 2027
  - 2050
26. The child sex ratio in 2011 when compared to 2001
- Has fell by 13 points
  - Has raised by 13 points
  - Has fell by 4 points
  - Has raised by 4 points
27. The HDI ranking for India during 2018 is
- 130
  - 134
  - 128
  - 188
28. The weighted proportion of percentage for the composite index for 'health outcomes' in NITI AAYOG's Health Index of India is
- 70 percent
  - 50 percent
  - 30 percent
  - 60 percent
29. As per the National strategic plan for TB elimination (2017-25), the TB incidence rate has to be reduced to
- 44 per lakh population
  - 65 per lakh population
  - 77 per lakh population
  - 40 per lakh population
30. The pre-packed STI/RTI color coded kits for urethral discharge under NACP is
- Green
  - White
  - Grey
  - Yellow
31. India is in which stage of demographic cycle
- First
  - Second
  - Third
  - Fourth



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32. Which of the following is not regarded as epidemiological marker of Vitamin A deficiency
- Night blindness
  - Bitots spot
  - Corneal xerosis
  - Conjunctival xerosis
33. Drug of choice for steroid dependent recurrent type 2 reversal reaction is
- Prednisolone
  - Thalidomide
  - Dexamethasone
  - Prothianamide
34. When is the World TB day observed?
- 20 march
  - 24 march
  - 21 march
  - 25 march
35. The prevalence of overweight in adults in India increased from 9% in 1990 to \_\_\_% in 2016
- 10%
  - 15%
  - 20%
  - 25%

